

K-Resin® SBC KR01

Styrene Butadiene Block Copolymer
Chevron Phillips Chemical Company LLC

Message:

K-Resin® SBC KR01 is a Styrene Butadiene Block Copolymer (SBC) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding, profile extrusion, or thermoforming.

Important attributes of K-Resin® SBC KR01 are:

Flame Rated
Clarity
Copolymer
Food Contact Acceptable
Good Stiffness

Typical applications include:

Medical/Healthcare
Consumer Goods
Containers
Electrical/Electronic Applications
Food Contact Applications

General Information			
UL YellowCard		E54700-244902	
Features	Copolymer		
	Food Contact Acceptable		
	Good Stiffness		
	Good Toughness		
	High Clarity		
	High Gloss		
	Warp Resistant		
	Uses	Containers	
Electronic Displays			
Medical/Healthcare Applications			
Toys			
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1640		
	USP Class VI		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
	Profile Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method

Specific Gravity	1.01	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	69		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	33.4	MPa	ASTM D638
Tensile Elongation ² (Break)	30	%	ASTM D638
Flexural Modulus ³ (3.18 mm)	1800	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.18 mm)	54.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact ⁵ (23°C, 3.18 mm)	2.15	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	64.4	°C	ASTM D648
Vicat Softening Temperature	90.0	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (60°)	164		ASTM D523
Transmittance	93.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	1.0	hr	
Processing (Melt) Temp	193 to 232	°C	
Mold Temperature	10.0 to 48.9	°C	
Back Pressure	0.345 to 1.03	MPa	
Clamp Tonnage	2.8 to 8.3	kN/cm ²	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	13 mm/min		
4.	13 mm/min		
5.	3.81 m/sec		

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